BLAST

Basic Local Alignment Search Tool

Your search parameters were adjusted to search for a short input sequence.

Edit and Resubriik Save Search Strategies, Formatting options Download

Protein Sequence (8 letters) Results for: |c||73700 None(8aa)

residues 70-77 of seq id 12

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

Query ID

leli73700 leli73700

Description

None

Molecule type amino acid

Query Length

Database Name

nr

Description

All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF excluding environmental samples from WGS projects

Program

BLASTP 2.2.22+ Citation

Relerence

Stephen F. Altschul, Thomas L. Madden, Alejandro A. Schäffer, Jinghul Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Other reports: Search Summary [Taxonomy reports] [Multiple alignment] NEW

Search Parameters

Program	blastp
Word size	2
Expect value	200000
Hitlist size	100
Gapcosts	9,1
Matrix	PAM30
Threshold	11
Filter string	F
Genetic Code	1
Window Size	40

Database

Posted date Jan 3, 2010 5:44 PM Number of letters 3,505,793,397 Number of sequences 10,274,250 Entrez query none

Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	0.36992	0.294
K	0.287801	0.11
Н	1 64552	0.61

Results Statistics

Length adjustment 0 Effective length of query 8

Effective length of database 3505793397 Effective search space 28046347176 Effective search space used 28046347176

Graphic Summary

Snow Conserved Domains

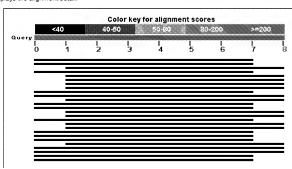
No putative conserved domains have been detected

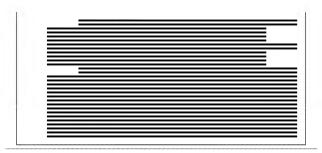


Distribution of 122 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence saligned to the duery sequence. Alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment definition and score in the box at the top. Clicking an alignment displays the alignment definition and score in the box at the top.





Descriptions

	Score	
E Sequences producing significant alignments:	(Bits)	Value
<pre>gmbiCER27849.11 thioredoxin reductase [uncultured archaeon] gbiACF77035.11 putative NADPH-dependent PNN reductase [Ralomo ref[25_0574949.11 amino acid permease [Corynebacterium effic gbjEER39512.11 hypothetical protein NECHADRAFT_70309 [Nectria ref125_04782255.11 NSC2 family nucleobase:cation symporter-2</pre>	23.1 23.1 23.1 23.1 23.1	3077 3077 3077 3077 3077
GD1EEP13878.11 hypothetical protein Pmar_PMAR016316 [Perkinsu hypothetical protein Pmar_PMAR016316 [Perkinsu	23.1	3077 3077
refixF_991715648.21 PREDICTED: hypothetical protein [Homo sap ref[xF_993327262.11 glycosyl transferase, family 2 [Xylanimon	23.1	3077 3077
ref[NP_002504543.1] predicted protein [Micromonas sp. RCC299]	23.1	3077
ref[X2_002523795.1] conserved hypothetical protein [Ricinus c	23.1	3077
ref:XP_002480603.1: NAD dependent epimerase/dehydratase, puta	23.1	3077
ref:XP_902601066.1: hypothetical protein BRAFLDRAFT_75502 [Br	23.1	3077
refixP_001354725.21 GA10819 [Drosophila pseudoobscura pseudoo	25.1	3077
<pre>x4f[XP_003061502.1] GK20941 [Drosophila willistoni] >gb[EDW72</pre>	23.1	3077
ref[X2_003046866.1] GJ12254 [Drosophila virilis] >gb[EDW69208	23.1	3077
<pre>cef!KP_002023358.11 GL20243 [Drosophila persimilis] >gb EDW27 gb EDW50648.31 vacuolar targeting protein Atg24, putative [As</pre>	23.1 23.1	3077 3077
$\texttt{ref}(\texttt{XP_901847639.1}) \texttt{zinc finger protein [Culex quinquefasciat}$	23.1	3077
<pre>ref(XP_001756481.1) predicted protein [Physcomitrella patens gk(A8082164.1) sprouty 2 [Pantherophis guttatus]</pre>	23.1	3077 3077
$\underline{\texttt{ref}[\texttt{ZP}_01896595.1]} \text{putative glutamate-ammonia-ligase adenylyl}$	23.1	3077
ref[%0_001475732.1] PREDICTED: hypothetical protein [Mus musc	23.1	3077
ref: RP 984271.21 PREDICTED: hypothetical protein [Mus musculus]	23.1	3077
<pre>nef:XP_001410960.1: predicted protein [Magnaporthe grisea 70</pre>	23.1	3077
<pre>ref(XP_001310397.1) hypothetical protein [Trichomonas vaginal</pre>	23.1	3077
refire_946098.1: hypothetical protein AAur_0278 [Arthrobacter	23.1	3077
ref[NP_001266748.1] vacuolar targeting protein Atg24, putativ	43.1	3077
ref[92 329499.1] NADH dehydrogenase subunit 5 [Apus apus] >em	23.1	3077
PRESIDE 148334 21 hypothetical protein APE_2029.1 [Aeropyrum p	23.1	3077
refixP_001796668.1: hypothetical protein SNOG_06291 [Phaeosph	23.1	3077 3077
ref[NP_924938.1: hypothetical protein [Rattus n ref[NP_924938.1: hypothetical protein SAV_3761 [Streptomyces	23.1	3077
gb[AAD13661.1] surface antigen [Hepatitis B virus]	23.1	3077
refive 261572.11 negative regulator of flagellin synthesis Fl	23.1	3077
<pre>ref:NP_001034904.1: adenosine A2a receptor a [Danio rerio] >g</pre>	23.1	3077
ref:NP 903667.1; ACR265Cp [Ashbya gossypii ATCC 10895] >gb AA	23.1	3077
refine_988256.1: phage-related putative exported protein [Bor	23.1	3077
ref[NF_737321.]: putative amino-acid permease [Corynebacteriu	23.1	3077
<pre>ref[RP_751536.i] vacuolar targeting protein Atg24 [Aspergillu ref[ZP_05095642.i] conserved hypothetical protein [Streptomyc</pre>	22.7	3077 4129
ref:XP_368727.: hypothetical protein MGG_00517 [Magnaporthe	23.7	4129
ref:30_00:20423.1: AMP-dependent synthetase and ligase [Caulo emb:C5375373.1: putative secreted phytase [Streptomyces scabi	22.3	5541 5541
ref:SF_05237567.1: long-chain-fatty-acidCoA ligase [Mycobac	22.3	5541
$ \begin{array}{lll} \texttt{refiCP_052:4857.1i} & \texttt{acyl-CoA} \ \texttt{synthetase} \ [\texttt{Mycobacterium intrace} \\ \texttt{refiCP_047:47:235.1i} & \texttt{acyl-CoA} \ \texttt{synthetase} \ [\texttt{Mycobacterium kansasi} \end{array} $	22.3	5541 5541

```
refile_04603925.1: hypothetical protein MCAG_00186 [Micromono...
xb[55879487,1] predicted protein [Ajellomyces capsulatus G186AR]
                                                                            5541
refive 003016595.ii acvl-CoA synthetase [Caulobacter crescent...
                                                                   22.3
                                                                            5541
ref[2P_05015265.1] two-component system sensor kinase [Strept...
cefift 001701681.11 putative fatty-acid--CoA ligase FadD [Myc...
                                                                   22.3
                                                                            5541
embiCAJ77863.11 FadD28 protein [Mycobacterium chelonae]
                                                                            5541
ref: XP_887009.1: acyl-CoA synthase [Mycobacterium smegmatis s...
                                                                  22.3
                                                                            5541
ref[NP_879511.1] acyl-CoA synthetase [Mycobacterium avium 104...
                                                                  22.3
                                                                            5541
refine 959153.1: acvl-CoA synthetase [Mycobacterium avium sub...
                                                                  22.3
                                                                            5541
ref[NR_419981.11 acyl-CoA synthetase [Caulobacter crescentus ...
                                                                  22.3
                                                                            5541
refive 001510807.1; DNA polymerase III subunits gamma and tau...
                                                                  22.3
                                                                            5541
gb:ACT90703.11 large S protein [Hepatitis B virus]
                                                                            7434
                                                                   21.3
gh:ACT90699.1| S protein [Hepatitis B virus]
                                                                   21.8
                                                                            7434
qb[AAA63244.1] profilaggrin [Homo sapiens]
                                                                   21.8
                                                                            7434
gb[RAA35487.1] profilaggrin [Homo sapiens]
                                                                   21.8
                                                                            7434
ref[NP_002007.1: filaggrin [Homo sapiens] >sp[P20930.3|FILA_H...
                                                                            7434
ref[FP_001508694.1] integrase catalytic region [Frankia sp. E...
                                                                   21.8
                                                                            7434
ref:29_04997765.1; fibronectin type III domain containing pro...
                                                                            9975
                                                                   21.4
embiCAL54906.1] unnamed protein product [Ostreococcus tauri]
                                                                            9975
qblAAC16046.1| FIP2 [Homo sapiens] >qb|AAG00497.1| FIP2 [Homo...
                                                                            9975
gb[AAC15947.1] FIP2 [Homo sapiens]
                                                                            9975
TD AAA25751.1: 2-hvdroxv-6-oxo-6-phenvlhexa-2,4-dienoate hvdr...
                                                                   21.4
                                                                            9975
rsf[EP_01039628.1] hypothetical protein NAP1_04965 [Erythroba...
                                                                  21.4
                                                                            9975
ref[32_003313354.1] FHA domain-containing protein [Sanguibact...
ref17P_003098106.1; DNA topoisomerase I [Actinosynnema mirum ...
ref: XP_002952627.1: flagellin [Desulfovibrio magneticus RS-1]...
                                                                           13384
ref[3P_04634430.1: Large exoprotein involved in heme utilizat...
                                                                           13384
rsf[XP_003564038.1] Pc22g00530 [Penicillium chrysogenum Wisco... 21.0
                                                                           13384
ref[NP_001129936.1] SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
cef[NP_001129935.1] SMAll family member (sma-9) [Caenorhabdit... 21.0
                                                                           13384
ref:XP_001269098.1; conserved hypothetical protein [Aspergill...
                                                                  21.0
                                                                           13384
gb1AAP28682.11 zinc finger transcription factor SMA-9 [Caenor...
                                                                  21..0
                                                                           13384
gb:AAR28681.1| zinc finger transcription factor SMA-9 [Caenor...
                                                                           13384
GD[AAQ94949.1] SMA-9 class B [Caenorhabditis elegans]
                                                                           13384
ref[NP 396615.2: PREDICTED: similar to CG9066-PA [Apis mellif... 21.0
                                                                           13384
rafine_001024879.11 SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
cefiNP_001024881.1| SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
                                                                  21.0
ref:NP_741897,21 SMAll family member (sma-9) [Caenorhabditis ...
                                                                  21.0
                                                                           13384
ref:NP 001024884.1: SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
rsf[NP_001024880.1] SMAll family member (sma-9) [Caenorhabdit... 21.0
                                                                           13384
refine_001024878.11 SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
cef[NP_001024883.1] SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
cefinD 001024877,1: SMAll family member (sma-9) [Caenorhabdit...
                                                                           13384
ref:NP_741896.2: SMAll family member (sma-9) [Caenorhabditis ...
ref[XF_002644111.1] C. briggsae CBR-SMA-9 protein [Caenorhabd... 21.0
                                                                           13384
rsf[YP_585978.1: tannase and feruloyl esterase [Ralstonia met...
                                                                           13384
gb[EF822506.]: hypothetical protein PANDA_008701 [Ailuropoda ...
                                                                  30.6
                                                                           17959
gb1EFA86986.11 conserved domain protein [Staphylococcus epide...
vefi22_06212945.11 YD repeat protein [Acidovorax avenae subsp...
                                                                  20.6
                                                                           17959
gbi8F809862.11 hypothetical protein TcasGA2_TC012010 [Triboli...
                                                                  20.6
tef:NP 001161595.1: nanos-like protein [Saccoglossus kowalevs...
                                                                  3.05
sef:30 06070998.1; adhesin [Acinetobacter lwoffii SH145] >gb[... 20.6
                                                                           17959
```

```
Alignments Select All Get selected sequences Distance tree of results Multiple alignment. NEW
>emb|CBH37829.1| thioredoxin reductase [uncultured archaeon]
Length=312
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
             GSTRTST 7
              GSTRTST
Sbict 265 GSTRTST 271
>qb|ACF77045.1| putative NADPH-dependent FMN reductase [Halomonas sp. HAL1]
Length=221
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 1
            GSTRTST
            GSTRTST
Shict 9 GSTRTST 15
>ref|ZP_05749499.1| amino acid permease [Corynebacterium efficiens YS-314]
 qb | EEW50349.1 | amino acid permease [Corynebacterium efficiens YS-314]
 Score = 23.1 bits (47), Expect = 3077
 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2 STRTSTG 8
              STRTSTG
Sbjct 543 STRTSTG 549
 Score = 17.2 bits (33), Expect = 188688
Identities = 5/6 (83%), Positives = 5/6 (83%), Gaps = 0/6 (0%)
Query 2
             STRTST
              S RTST
Sbjct 539 SARTST 544
>gb|EEU39512.1| hypothetical protein NECHADRAFT_70309 [Nectria haematococca mpVI
  7-13-41
Length=483
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 1
             GSTRTST
Sbjct 278 GSTRTST
>ref|ZP_04783253.1| NCS2 family nucleobase:cation symporter-2 [Weissella parames ATCC 33313]
 gb|EER74751.1| NCS2 family nucleobase:cation symporter-2 [Weissella paramesente
Length=434
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2 STRTSTG
           STRTSTG
Sbjct 4 STRTSTG 10
>gb|EER18878.1| hypothetical protein Pmar_PMAR006502 [Perkinsus marinus ATCC
50983]
Length=50
```

Th: SEY61924.11 conserved hypothetical protein [Phytophthora i... 20.5

```
Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2 STRTSTG 8
            STRTSTG
Sbjct 22 STRTSTG 28
>gb|EER13661.1| hypothetical protein Pmar_PMAR016316 [Perkinsus marinus ATCC
Length=548
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2 STRTSTG 8
            STRTSTG
Sbict 19 STRTSTG 25
>ref|XP 001715648.2| G PREDICTED: hypothetical protein [Homo sapiens]
Length=93
 GENE ID: 100134320 LOC100134320 | hypothetical protein LOC100134320
[Homo sapiens]
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2 STRTSTG 8
            STRTSTG
Sbict 18 STRTSTG 24
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Querv 2
            STRTSTG 8
            STRTSTG
Sbict 28 STRTSTG 34
>ref|YP_003327263.1| glycosyl transferase, family 2 [Xylanimonas cellulosilytica
 gb|ACZ31705.1| glycosyl transferase, family 2 [Xylanimonas cellulosilytica DSM
5894]
Length=306
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 1
             GSTRTST
             GSTRTST
Sbict 293 GSTRTST 299
>ref[XP_002504543.1]  predicted protein [Micromonas sp. RCC299]
 gb/ACO65801.11 G predicted protein [Micromonas sp. RCC299]
Length=559
 GENE ID: 8246104 MICPUN 50521 | hypothetical protein [Micromonas sp. RCC299]
 Score = 23.1 bits (47), Expect = 3077
 Identities = 7/8 (87%), Positives = 8/8 (100%), Gaps = 0/8 (0%)
Querv 1
           GSTRTSTG 8
            G+TRTSTG
Sbict 83 GTTRTSTG 90
>ref[XP 002523795.1] G conserved hypothetical protein [Ricinus communis]
 gb|EEF38521.1| conserved hypothetical protein [Ricinus communis]
Length=1237
 GENE ID: 8271907 RCOM 1280790 | hypothetical protein [Ricinus communis]
 Score = 23.1 bits (47), Expect = 3077
```

```
Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2
               STRTSTG 8
Sbjct 440 STRTSTG 446
>ref[XP 002480603.1] G NAD dependent epimerase/dehydratase, putative [Talaromyce
ATCC 105001
 ab | EED 20169.1 | I NAD dependent epimerase / dehvdratase, putative | Talaromyces sti
ATCC 10500]
Length=356
GENE ID: 8097825 TSTA_034080 | NAD dependent epimerase/dehydratase, putative [Talaromyces stipitatus ATCC 10500]
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
               GSTRTST 7
               GSTRTST
Sbict 234 GSTRTST 240
>ref[XP 002601066.1] G hypothetical protein BRAFLDRAFT 75502 [Branchiostoma flor
 cb/EEN57078.11 G hypothetical protein BRAFLDRAFT 75502 [Branchiostoma floridae]
Length=2283
GENE ID: 7235864 BRAFLDRAFT_75502 | hypothetical protein [Branchiostoma floridae] (10 or fewer PubMed links)
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 1
                GSTRTST
                GSTRTST
Sbjct 2266 GSTRTST 2272
 Score = 18.0 bits (35), Expect = 104804 Identities = 5/5 (100\%), Positives = 5/5 (100\%), Gaps = 0/5 (0\%)
Query 3
                TRTST 7
                TRTST
Sbict 2204 TRTST 2208
>ref[XP 001354725.2] G GA10819 [Drosophila pseudoobscura pseudoobscura]
 ab|EAL31780.2| GA10819 [Drosophila pseudoobscura pseudoobscura]
Length=728
GENE ID: 4815191 Dpse\GA10819 | GA10819 gene product from transcript GA10819-RA [Drosophila pseudoobscura pseudoobscura] (10 or fewer PubMed links)
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2
               STRTSTG 8
               STRTSTG
Sbict 651 STRTSTG 657
>ref[XP 002061502.1] G GK20941 [Drosophila willistoni]
 gb/EDW72488.1| GK20941 [Drosophila willistoni]
Length=444
GENE ID: 6638486 Dwil\GK20941 | GK20941 gene product from transcript GK20941-RA [Drosophila willistoni] (10 or fewer PubMed links)
 Score = 23.1 bits (47), Expect = 3077 Identities = 7/7 (100%), Positives = 7/7 (100%), Gaps = 0/7 (0%)
Query 2
               STRTSTG 8
               STRTSTG
Sbjct 251 STRTSTG 257
```